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1 **Proceedings of NORTHCON '94**

Northcon/94 Conference Record , 11-13 Oct. 1994
[Abstract] [PDF Full-Text (492 KB)] **IEEE CNF**

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2 **Compatible scrambling of compressed audio**
Herre, J.; Allamanche, E.;
Applications of Signal Processing to Audio and Acoustics, 1999 IEEE Workshop on , 17-20 Oct. 1999
Pages:27 - 30

[Abstract] [PDF Full-Text (220 KB)] **IEEE CNF**

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3 **A 128K EPROM using encryption of pseudorandom numbers to enable read access**
Letham, L.; Hoff, D.; Folmsbee, A.;
Solid-State Circuits, IEEE Journal of , Volume: 21 , Issue: 5 , Oct 1986
Pages:881 - 888

[Abstract] [PDF Full-Text (856 KB)] **IEEE JNL**

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1 Analysis of watermarking techniques for graph coloring problem

Gang Qu, Miodrag Potkonjak

November 1998 **Proceedings of the 1998 IEEE/ACM international conference on Computer-aided design**

Full text available: pdf(465.55 KB) Additional Information: full citation, references, citings, index terms

2 Fast Secure Processor for Inhibiting Software Piracy and Tampering

Jun Yang, Youtao Zhang, Lan Gao

December 2003 **Proceedings of the 36th Annual IEEE/ACM International Symposium on Microarchitecture**

Full text available: pdf(258.88 KB) Publisher Site Additional Information: full citation, abstract, index terms

Due to the widespread software piracy and virus attacks,significant efforts have been made to improve security forcomputer systems. For stand-alone computers, a key observationis that other than the processor, any component isvulnerable to security attacks. Recently, an execution onlymemory (XOM) architecture has been proposed to supportcopy and tamper resistant software [18, 17, 13]. In this design,the program and data are stored in encrypted formatoutside the CPU boundary. The decryption is ca ...

3 Fable: A programming-language solution to IC process automation problems

Harold L. Ossher, Brian K. Reid

June 1983 **Proceedings of the 1983 ACM SIGPLAN symposium on Programming language issues in software systems**

Full text available: pdf(1.38 MB) Additional Information: full citation, abstract, references, citings, index terms

The Stanford University Center for Integrated Systems is embarking on an ambitious project to formally characterize integrated circuit fabrication processes, and to provide a degree of automation of research and prototyping activities in the IC fabrication facility. A crucial component of this project is the ability to represent an IC fabrication "recipe" in a repeatable, transportable, device-independent fashion. We have designed the language Fable for this purpose: it offers s ...

4 Cellular and Cryptographic Applications: Cryptographic rights management of FPGA intellectual property cores

Tom Kean

February 2002 **Proceedings of the 2002 ACM/SIGDA tenth international symposium on Field-programmable gate arrays**

Full text available: pdf(171.79 KB) Additional Information: full citation, abstract, references, index terms

As the capacity of FPGA's increases to millions of equivalent gates the use of Intellectual Property (IP) cores becomes increasingly important to control design complexity. FPGA's are becoming platforms for integrating a system solution from components supplied by independent vendors in the same way as printed circuit boards provided a platform for earlier generations of designers. However, the current commercial model for IP cores involves large up-front license fees reminiscent of ASIC NRE cha ...

Keywords: FPGA, cryptography, intellectual property, rights management

5 Public protection of software

Amir Herzberg, Shlomit S. Pinter

October 1987 **ACM Transactions on Computer Systems (TOCS)**, Volume 5 Issue 4

Full text available: pdf(1.78 MB) Additional Information: full citation, abstract, references, citings, index terms, review

One of the overwhelming problems that software producers must contend with is the unauthorized use and distribution of their products. Copyright laws concerning software are rarely enforced, thereby causing major losses to the software companies. Technical means of protecting software from illegal duplication are required, but the available means are imperfect. We present protocols that enable software protection, without causing substantial overhead in distribution and maintenance. The pro ...

6 Trends in applications

Carl Helmers

September 1976 **ACM SIGMINI Newsletter**, Volume 2 Issue 4-5

Full text available: pdf(583.07 KB) Additional Information: full citation, abstract

Where is the small computer field headed? In order to talk about the future of small computers and their applications, I have to take on the role of a prognosticator, a predictor of future trends and events. Prognostication is an art to which mystical or magical qualities are often attributed, but which in reality is nothing more than a combination of reasoning and imagination based upon observation. The injection of imagination about possible trends and developments makes prognostication a bit ...

7 Fingerprinting intellectual property using constraint-addition

Gang Qu, Miodrag Potkonjak

June 2000 **Proceedings of the 37th conference on Design automation**

Full text available: pdf(123.86 KB) Additional Information: full citation, abstract, references, citings, index terms

Recently, intellectual property protection (IPP) techniques attracted a great deal of attention from semiconductor, system integration and software companies. A number of watermarking-based techniques have been proposed for IPP. One of the key limitations of watermarking is that it does not facilitate tracing of illegally resold intellectual property (IP). Fingerprinting resolves this problem by providing each customer with a unique instance of functionally identical IP. We propose ...

8 Marking and tracing methods: Traitor tracing for prerecorded and recordable media

Hongxia Jin, Jeffery Lotspiech, Stefan Nusser

October 2004 **Proceedings of the 4th ACM workshop on Digital rights management**

Full text available: pdf(188.04 KB) Additional Information: full citation, abstract, references, index terms

In this paper we are focusing on the use of a traitor tracing scheme for distribution models that are based on prerecorded or recordable physical media. When a pirated copy of the protected content is observed, the traitor tracing scheme allows the identification of at least one of the real subscribers who participated in the construction of the pirated copy. We show how we systematically assign the variations to users. We explore under what circumstances traitor tracing technology is applica ...

Keywords: content protection, security, traitor tracing

9 Security as a new dimension in embedded system design: Security as a new dimension in embedded system design

Srivaths Ravi, Paul Kocher, Ruby Lee, Gary McGraw, Anand Raghunathan
June 2004 **Proceedings of the 41st annual conference on Design automation**

Full text available: pdf(209.10 KB) Additional Information: full citation, abstract, references, index terms

The growing number of instances of breaches in information security in the last few years has created a compelling case for efforts towards secure electronic systems. Embedded systems, which will be ubiquitously used to capture, store, manipulate, and access data of a sensitive nature, pose several unique and interesting security challenges. Security has been the subject of intensive research in the areas of cryptography, computing, and networking. However, despite these efforts, *security is ...*

***Keywords**: PDAs, architectures, battery life, cryptography, design, design methodologies, digital rights management, embedded systems, performance, security, security processing, security protocols, sensors, software attacks, tamper resistance, trusted computing, viruses*

10 Publicly detectable techniques for the protection virtual components

Gang Qu
June 2001 **Proceedings of the 38th conference on Design automation**

Full text available: pdf(131.89 KB) Additional Information: full citation, abstract, references, citings, index terms

Highlighted with the newly released intellectual property (IP) protection white paper by VSI Alliance, the protection of virtual components (VCs) has received a large amount of attention recently. Digital signature is one of the most promising solutions among the known protection mechanisms. However, the trade-off between hard-to-attack and easy-to-detect and the lack of efficient detection schemes are the major obstacles for digital signatures to thrive. In this paper, we propose a new wat ...

11 SIGda '96, workshop: how do we expedite the commercial use of Ada?

Robert C. Leif
March 1999 **ACM SIGAda Ada Letters**, Volume XIX Issue 1

Full text available: pdf(858.93 KB) Additional Information: full citation, citings, index terms

12 Toward the domestication of microelectronics

Joel S. Birnbaum
November 1985 **Communications of the ACM**, Volume 28 Issue 11

Full text available: pdf(1.23 MB) Additional Information: full citation, abstract, citings, index terms, review

The great challenge for computer science in this decade is to make computers usable by everyone. Computers, long viewed as a dehumanizing force, will become the most powerful means of personal creative expression and communication ever known.

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